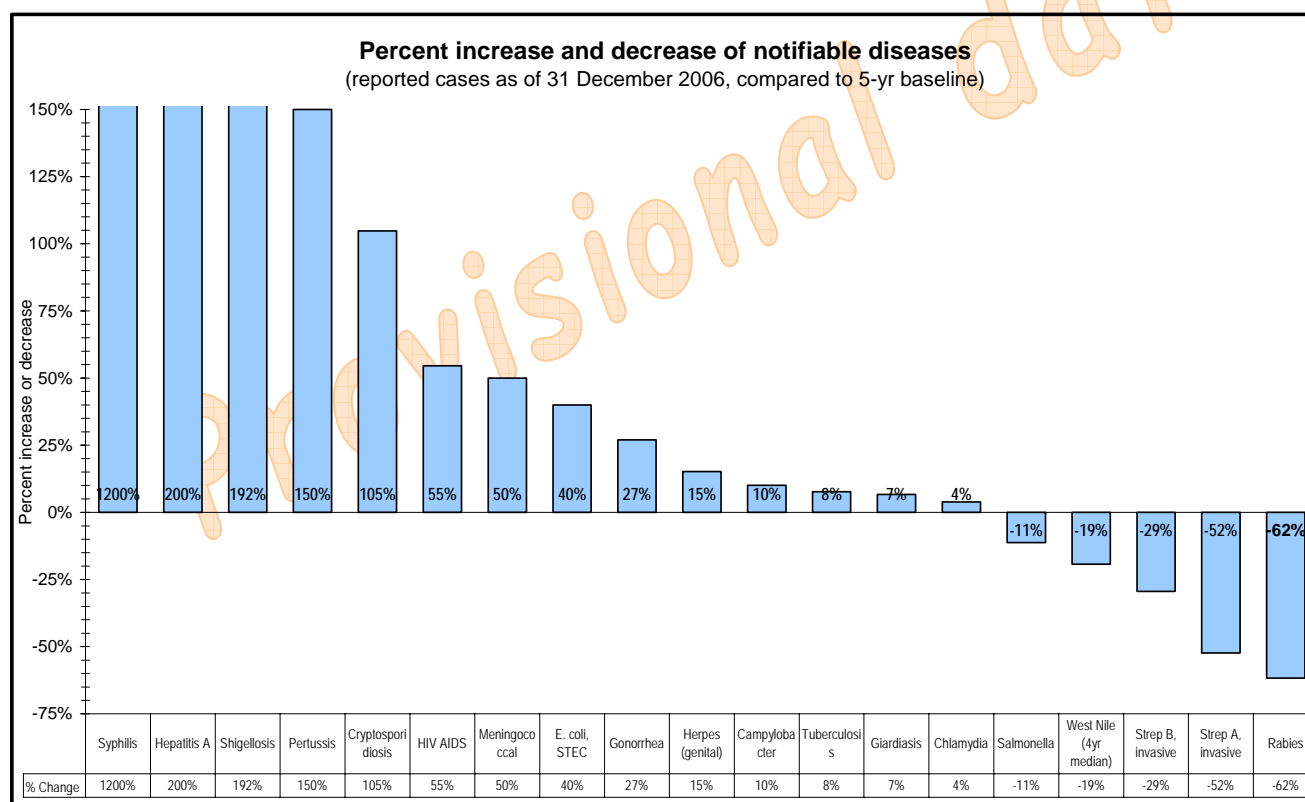


SOUTH DAKOTA INFECTIOUS DISEASE SUMMARY: 1 January – 31 December 2006

These data are provisional.

Disease/agent	Cases YTD	Incidence YTD	5-year median cases	Percent increase or decrease	Comments
Syphilis (Prim & Sec)	13	1.7	1	1200%	10 cases in Minnehaha County
Hepatitis A	9	1.2	3	200%	No new cases since September
Shigellosis	382	49.6	131	192%	Multidrug resistant strain circulating
Pertussis	20	2.6	8	150%	No new cases in November
Cryptosporidiosis	86	11.2	42	105%	Highest rate in Southeast Region
HIV AIDS	34	4.4	22	55%	Most annual new cases since 1995
Meningococcal	6	0.8	4	50%	New case in Southeast Region
<i>E. coli</i> , STEC	49	6.4	35	40%	Most annual cases since 2000
Gonorrhea	367	47.6	289	27%	Third year of increasing case numbers
Herpes (genital)	371	48.1	322	15%	Highest rate in Southeast Region
Campylobacter	218	28.3	198	10%	Highest rate in Central Region
Tuberculosis	14	1.8	13	8%	Highest rate in West Region
Giardiasis	96	12.5	90	7%	Highest rate in Southeast Region
Chlamydia	2633	341.6	2534	4%	Highest rates in Central and West Regions
Tularemia	5	0.6	5	0%	Most cases in Central Region
Salmonella	134	17.4	151	-11%	Highest rate in Central Region
West Nile (4yr median)	113	14.7	140	-19%	No new cases since hard frost in October
<i>Strep B</i> , invasive	12	1.6	17	-29%	No new cases since November
<i>Strep A</i> , invasive	10	1.3	21	-52%	No new cases since November
Rabies	36	NA	94	-62%	1 dog, 5 cats, 1 horse, 4 cattle, 2 bats, 23 skunks
Mumps	293	38.7	0	na	First mumps outbreak in SD since 1991

Diseases may be reported to the SD Dept of Health at <http://www.state.sd.us/doh/diseasereport>

Incidence = cases reported per 100,000 population.

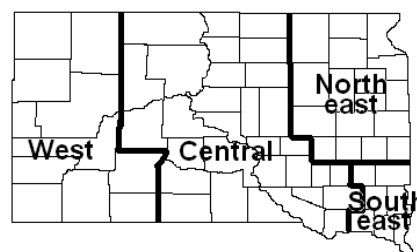
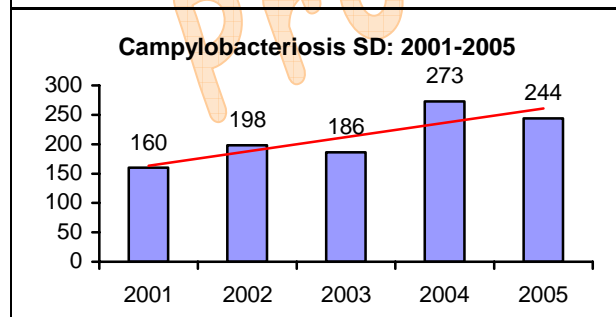
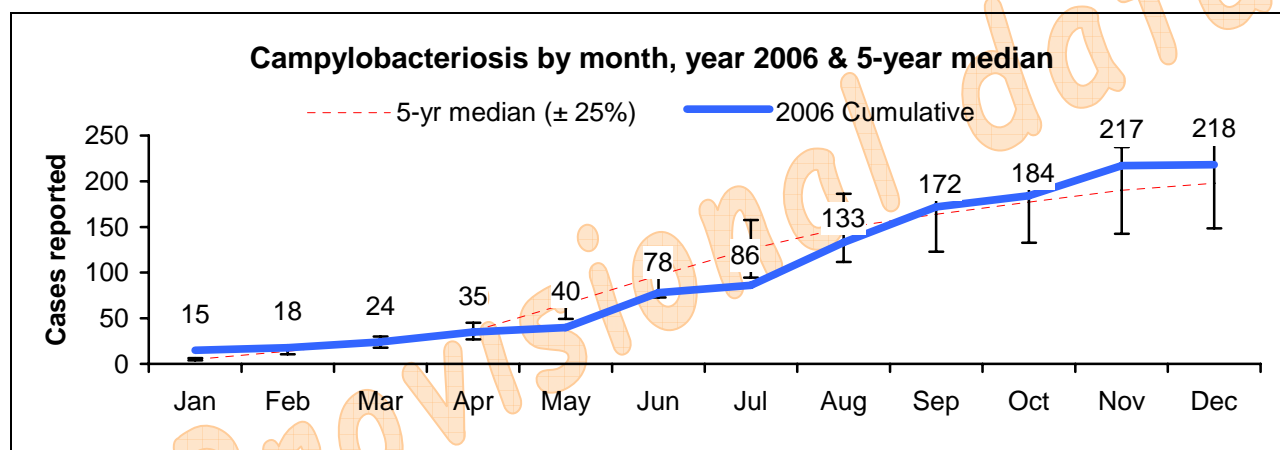
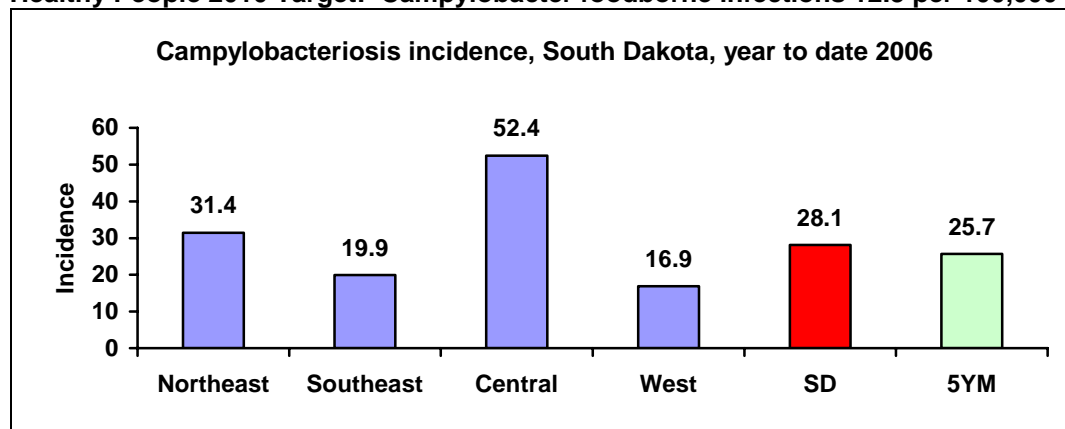
***Confidential disease reporting line 1-800-592-1804**

5YM= 5-year median

Population based on 2005 estimates

CAMPYLOBACTERIOSIS																
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
NorthEast Region	181,370	57	31.4	6	0	4	5	2	12	2	9	11	1	5	0	
SouthEast Region	256,093	51	19.9	1	0	1	2	1	5	2	10	16	2	10	1	
Central Region	148,946	78	52.4	7	3	1	5	0	16	3	17	8	6	12	0	
Western Region	189,524	32	16.9	0	0	0	0	2	5	1	11	4	3	6	0	
West River	234,700	48	20.5	0	0	0	2	2	9	1	14	6	5	9	0	
East River	541,233	170	31.4	14	3	6	10	3	29	7	33	33	7	24	1	
South Dakota YTD	775933	218	28.1	14	3	6	12	5	38	8	47	39	12	33	1	

Healthy People 2010 Target: Campylobacter foodborne infections 12.3 per 100,000 per year



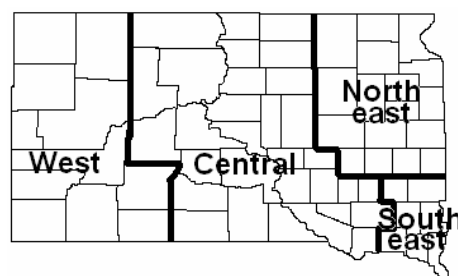
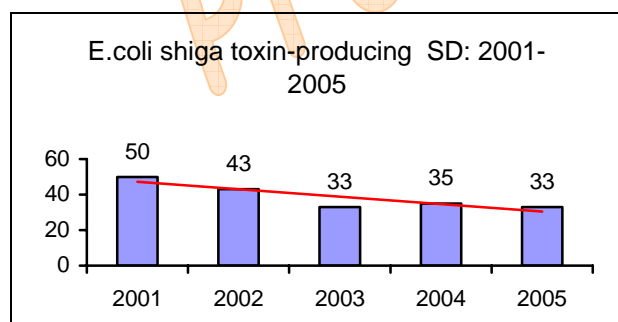
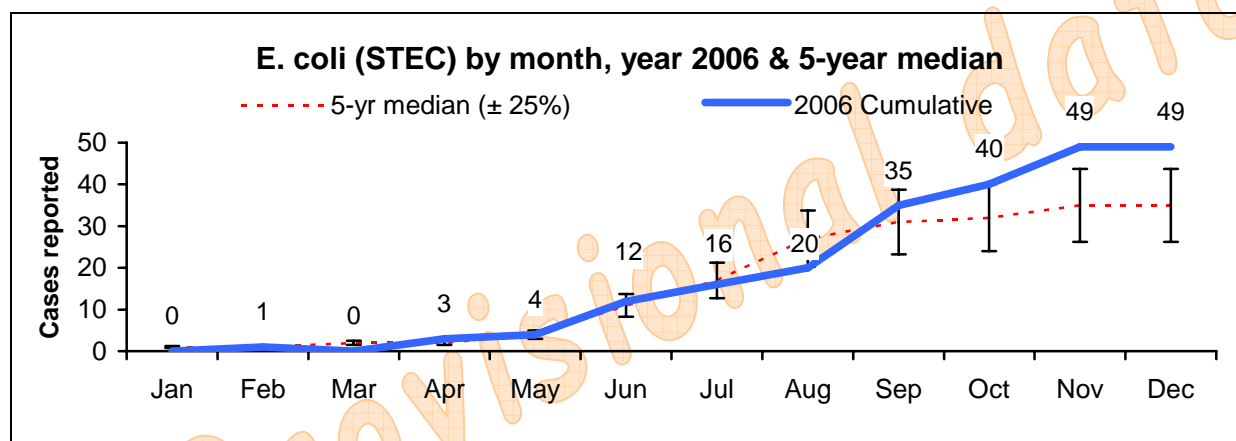
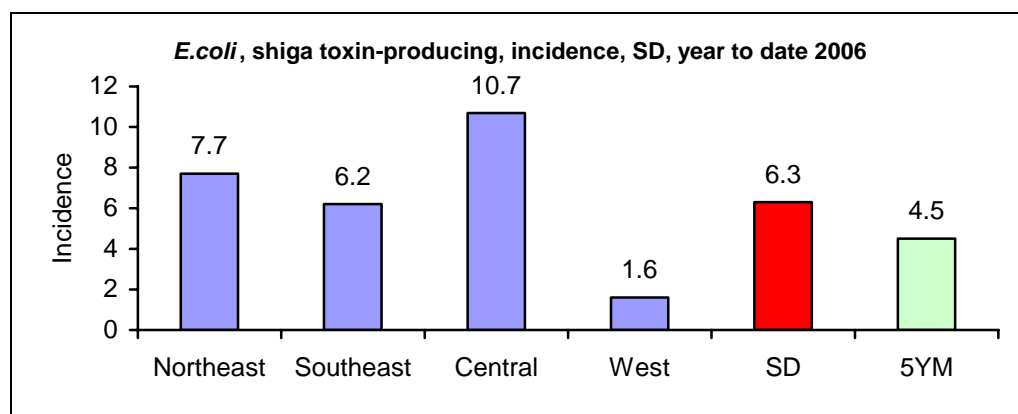
Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2005 estimates

E. coli, Shiga toxin-producing																
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
NorthEast Region	181,370	14	7.7	0	1	0	1	0	1	0	0	7	2	2	0	
SouthEast Region	256,093	16	6.2	0	0	0	0	0	1	1	5	3	1	5	0	
Central Region	148,946	16	10.7	0	0	0	1	0	6	2	1	3	2	1	0	
Western Region	189,524	3	1.6	0	0	0	0	0	0	0	0	2	0	1	0	
West River	234,700	5	2.1	0	0	0	0	0	0	1	0	3	0	1	0	
East River	541,233	44	8.1	0	1	0	2	0	8	2	6	12	5	8	0	
South Dakota YTD	775,933	49	6.3	0	1	0	2	0	8	3	6	15	5	9	0	



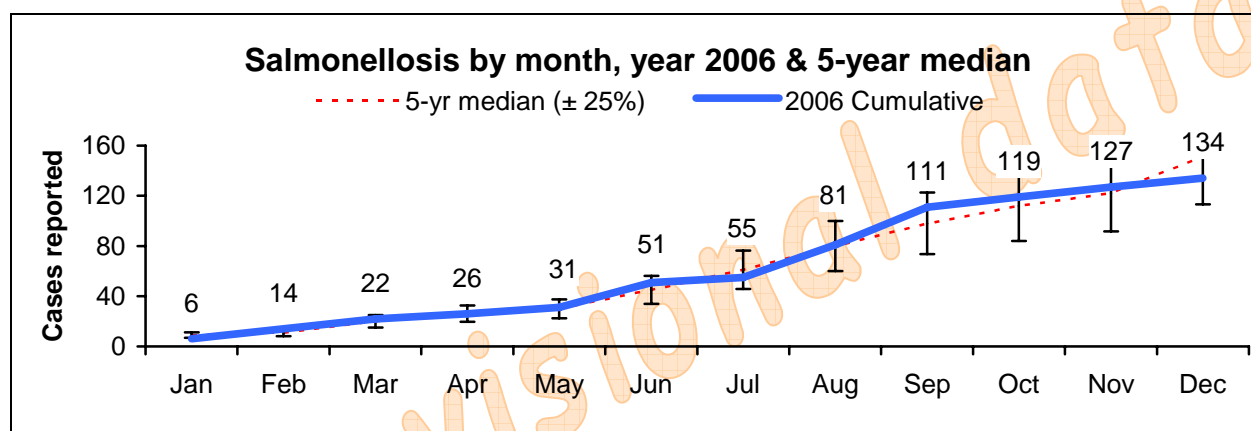
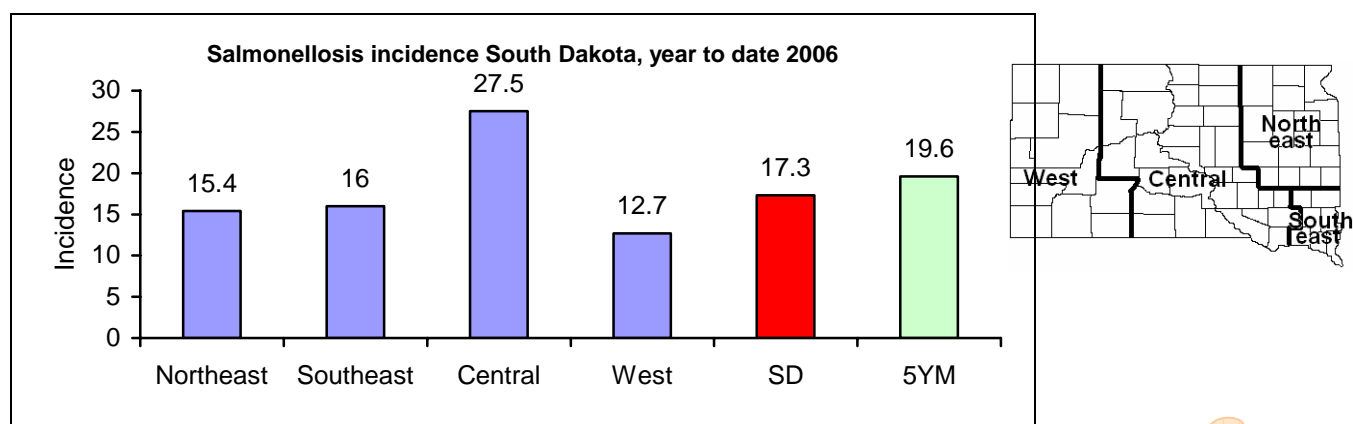
Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

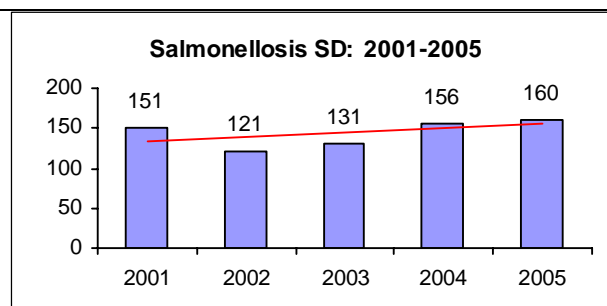
Population based on 2005 estimates

SALMONELLOSIS				#											
Region	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	28	15.4	1	0	2	0	2	4	1	5	10	0	1	2
SouthEast Region	256,093	41	16.0	1	1	4	1	1	7	0	9	6	5	5	1
Central Region	148,946	41	27.5	2	5	0	3	2	7	3	11	3	3	0	2
Western Region	189,524	24	12.7	2	2	2	0	0	1	0	2	11	0	2	2
West River	234,700	42	17.9	2	7	2	0	0	2	2	8	14	1	2	2
East River	541,233	92	17.0	4	1	6	4	5	17	2	19	16	7	6	5
South Dakota YTD	775,933	134	17.3	6	8	8	4	5	19	4	27	30	8	8	7



One case of imported *Salmonella Typhi* reported.

Salmonella serotypes	TOTAL
S. enteritidis	17
S. heidelberg	5
S. infantis	7
S. montevideo	5
S. newport	11
S. paratyphi	3
S. typhi	1
S. typhimurium	45
Other serotypes	40
TOTAL	134



Incidence = cases reported per 100,000 population.

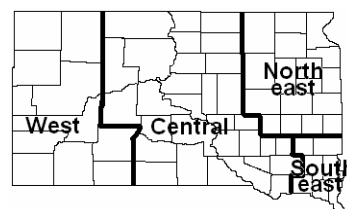
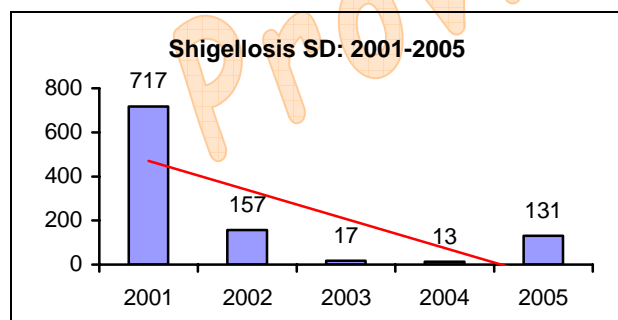
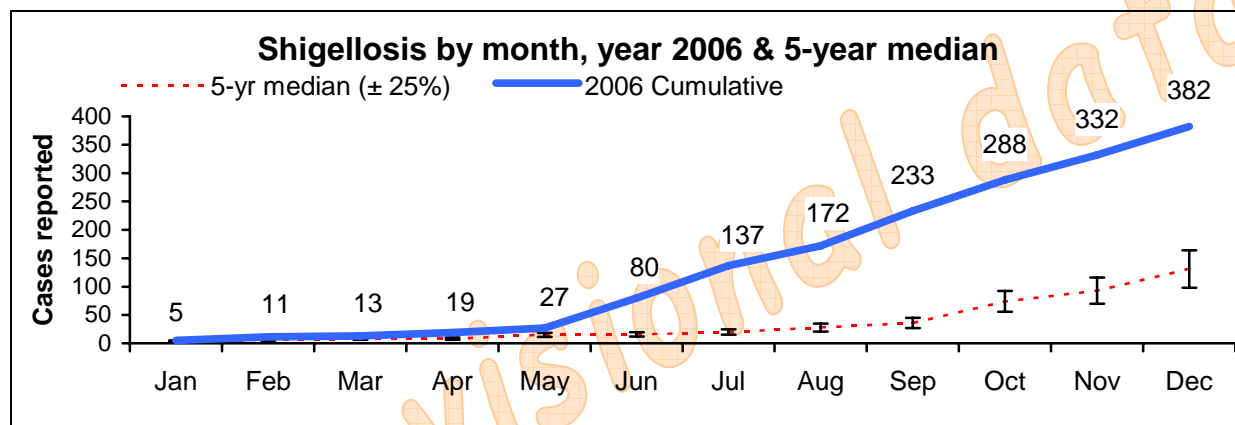
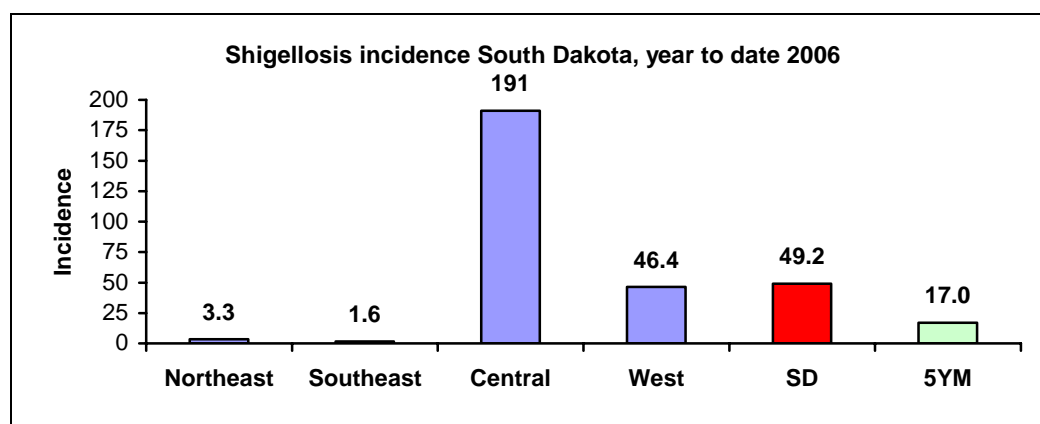
*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2005 estimates

SHIGELLOSIS															
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	6	3.3	0	0	0	0	0	0	0	0	0	0	2	4
SouthEast Region	256,093	4	1.6	1	0	0	0	0	0	0	0	0	0	2	1
Central Region	148,946	284	190.7	4	5	0	5	6	37	46	28	33	42	40	38
Western Region	189,524	88	46.4	0	0	1	1	2	10	16	7	28	14	2	7
West River	234,700	316	134.6	3	3	1	6	8	46	62	35	58	51	34	9
East River	541,233	66	12.2	2	2	0	0	0	1	0	0	3	5	12	41
South Dakota YTD	775,933	382	49.2	5	5	1	6	8	47	62	35	61	56	46	50

Shigella species: *Shigella sonnei* 99%; *Shigella boydii* 1%



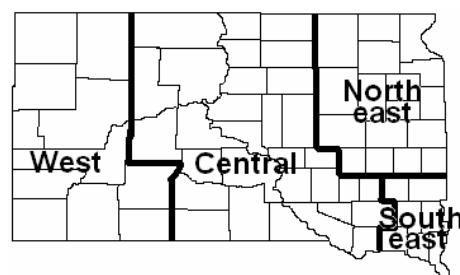
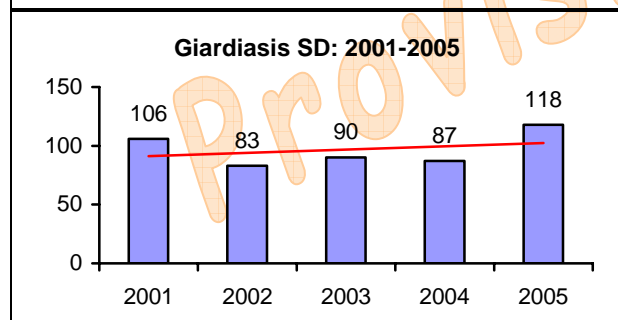
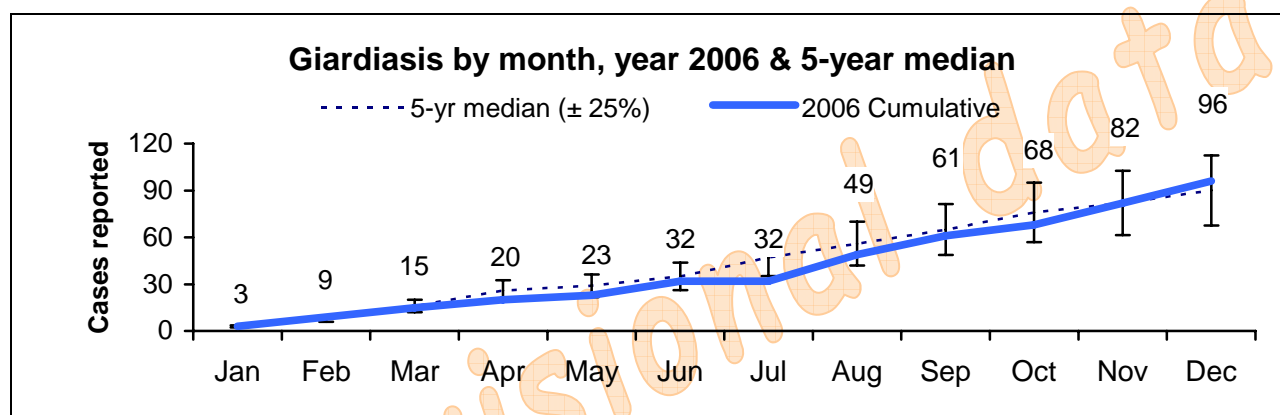
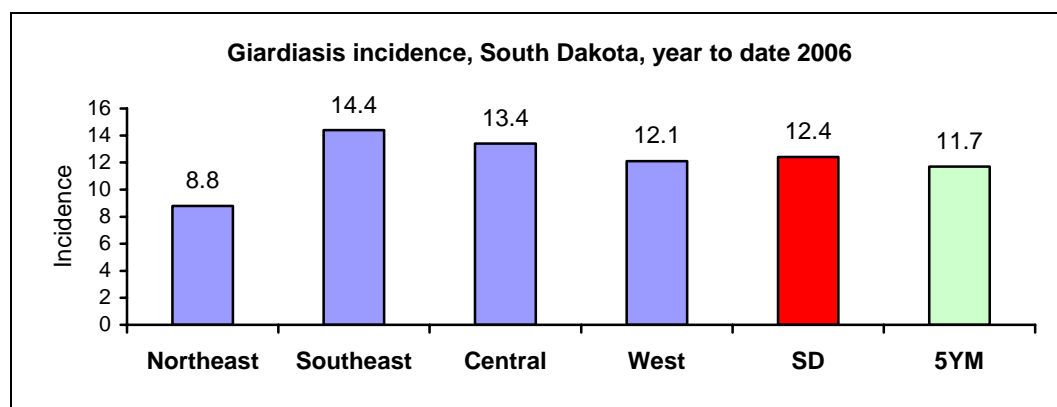
Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

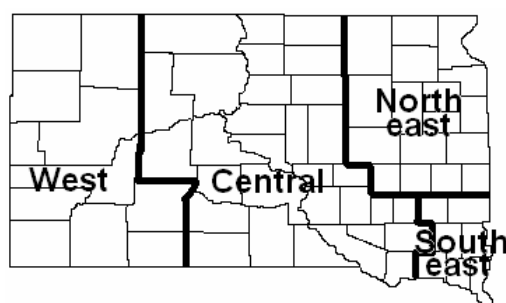
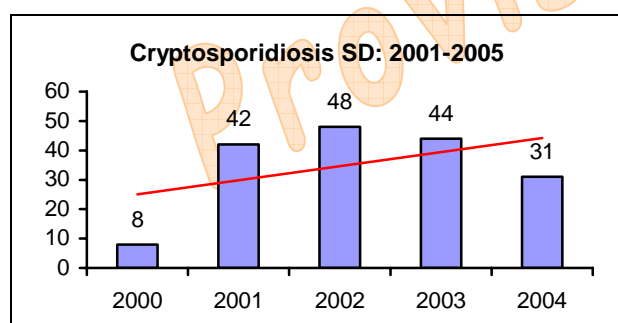
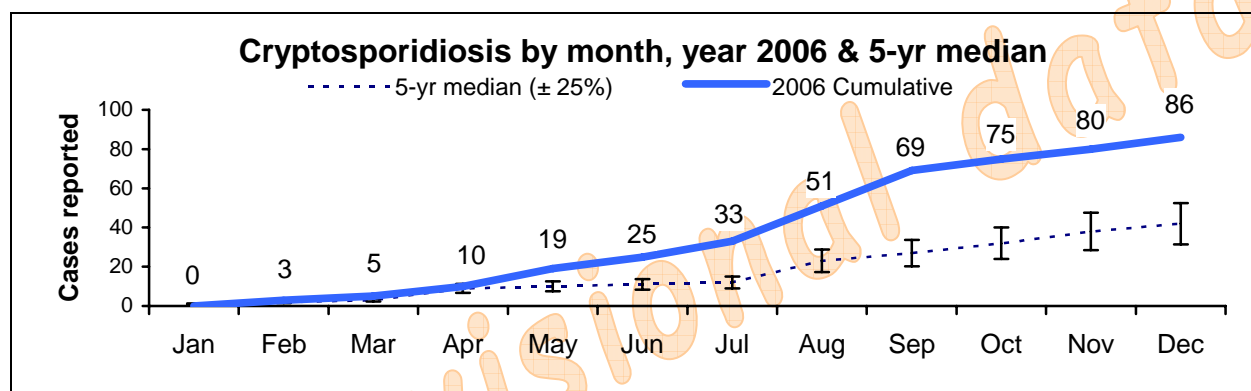
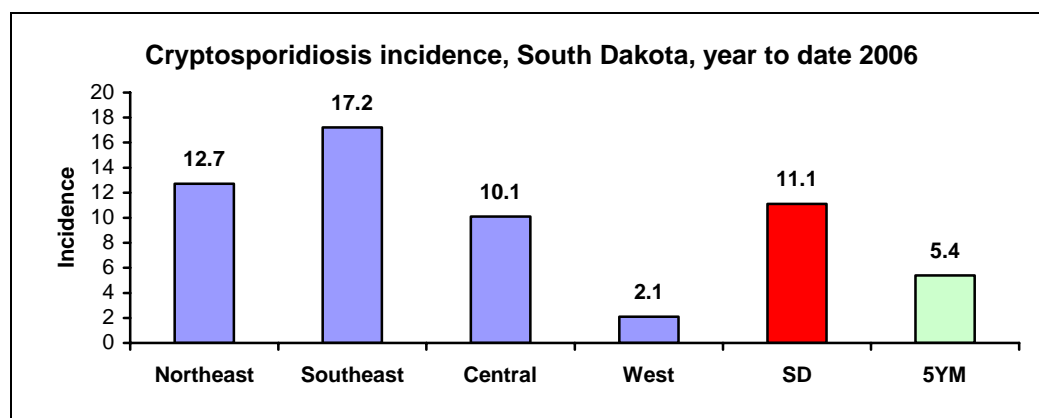
5YM= 5-year median

Population based on 2005 estimates

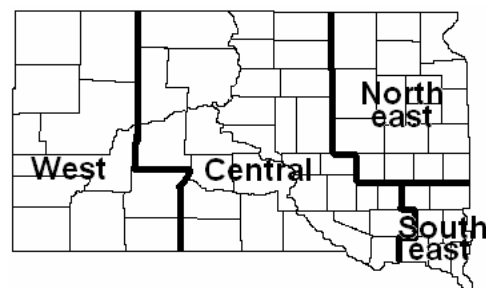
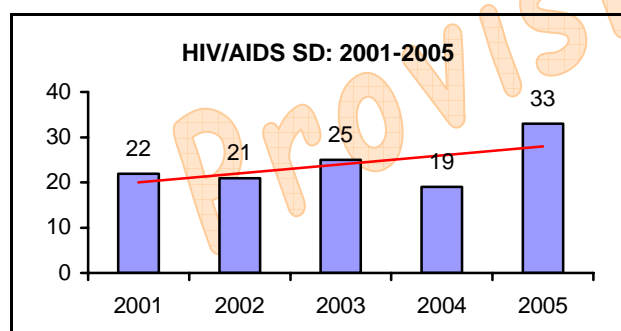
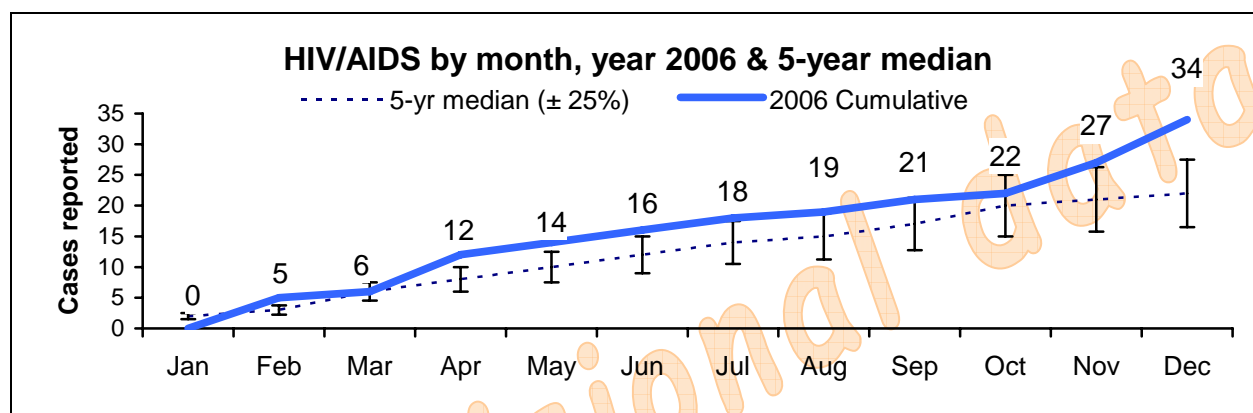
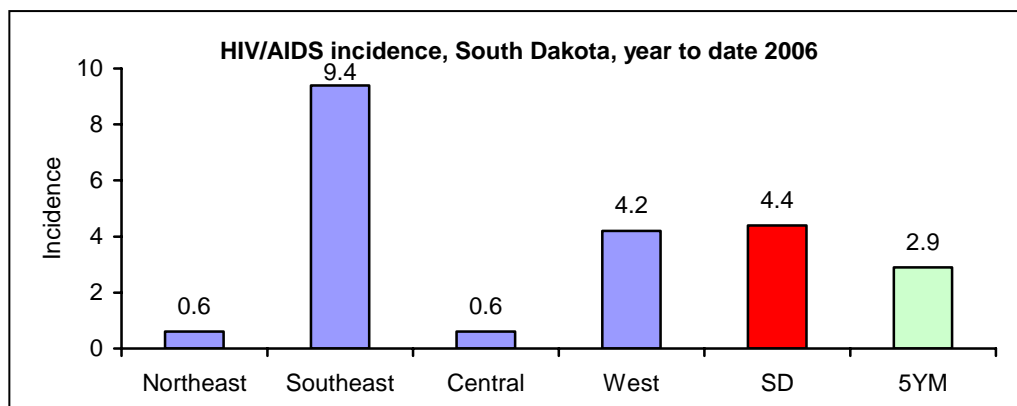
GIARDIASIS																
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
NorthEast Region	181,370	16	8.8	0	2	0	0	0	3	0	4	4	0	1	2	
SouthEast Region	256,093	37	14.4	0	1	2	4	2	2	0	4	5	4	6	7	
Central Region	148,946	20	13.4	1	2	2	0	1	0	0	6	0	2	4	2	
Western Region	189,524	23	12.1	2	1	2	1	0	4	0	3	3	1	3	3	
West River	234,700	27	11.5	2	1	2	1	0	4	0	4	3	2	5	3	
East River	541,233	69	12.7	1	5	4	4	3	5	0	13	9	5	9	11	
South Dakota YTD	775,933	96	12.4	3	6	6	5	3	9	0	17	12	7	14	14	



CRYPTOSPORIDIOSIS																
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
NorthEast Region	181,370	23	12.7	0	0	0	0	1	3	0	6	5	0	5	3	
SouthEast Region	256,093	44	17.2	0	0	3	6	1	2	0	9	15	0	5	3	
Central Region	148,973	15	10.1	0	0	0	0	0	4	0	4	4	2	1	0	
Western Region	189,524	4	2.1	0	0	0	0	0	1	0	0	2	0	1	0	
West River	234,727	7	3.0	0	0	0	0	0	3	0	1	2	0	1	0	
East River	541,233	79	14.6	0	0	3	6	2	7	0	18	24	2	11	6	
South Dakota YTD	775,960	86	11.1	0	0	3	6	2	10	0	19	26	2	12	6	



HIV / AIDS				#											
Region	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	174,471	1	0.6	0	1	0	0	0	0	0	0	0	0	0	0
SouthEast Region	256,093	24	9.4	0	4	1	5	1	2	2	1	0	0	4	4
Central Region	155,845	1	0.6	0	0	0	0	0	0	0	0	0	0	0	1
Western Region	189,524	8	4.2	0	0	0	1	1	0	0	0	2	1	1	2
South Dakota	764,309	34	4.4	0	5	1	6	2	2	2	1	2	1	5	7



Incidence = cases reported per 100,000 population.

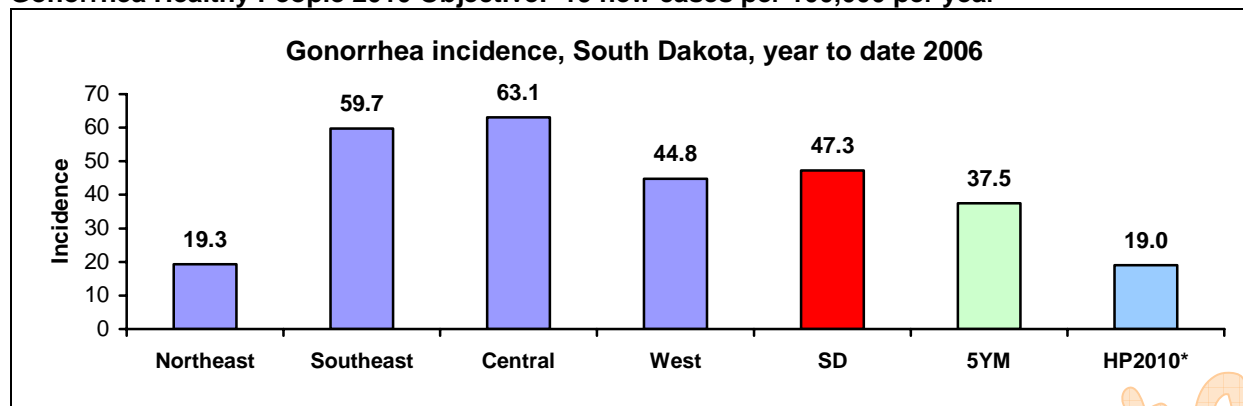
*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

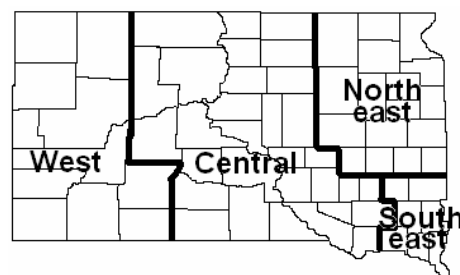
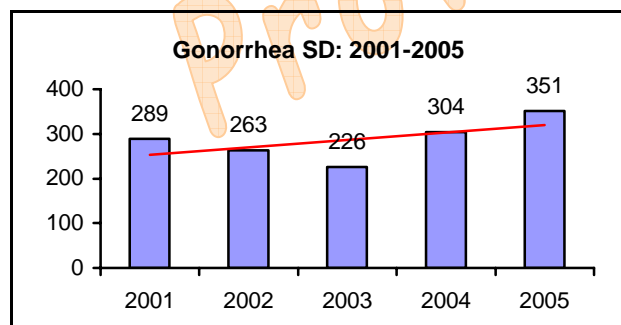
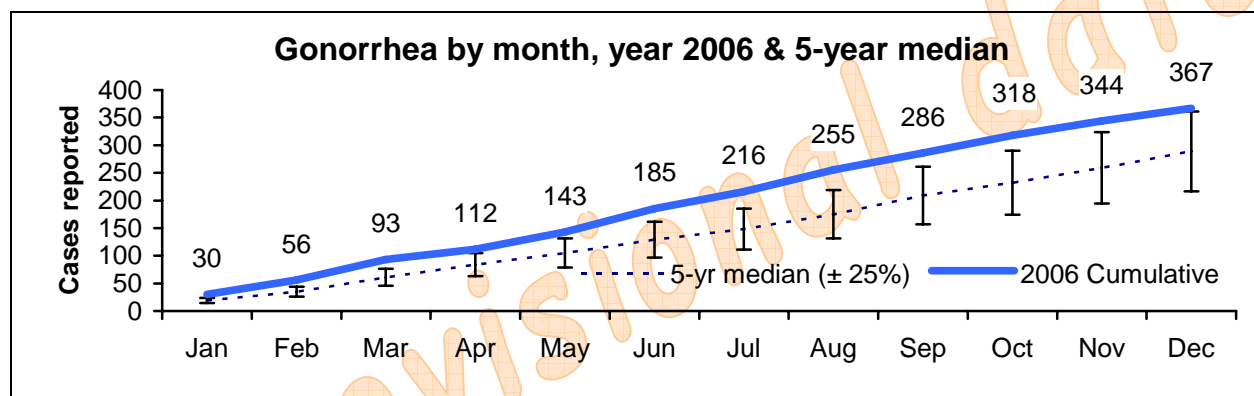
Population based on 2005 estimates

GONORRHEA				#											
Region	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	35	19.3	1	2	1	2	2	6	4	8	4	1	4	0
SouthEast Region	256,093	153	59.7	8	6	22	9	16	17	15	8	11	16	13	12
Central Region	148,946	94	63.1	14	10	9	6	7	10	6	12	7	9	2	2
Western Region	189,524	85	44.8	7	8	4	3	6	9	6	11	7	7	8	9
West River	234,700	144	61.4	17	14	12	9	10	17	8	18	11	9	9	10
East River	541,233	223	41.2	13	12	24	11	21	25	23	21	18	24	18	13
South Dakota YTD	775,933	367	47.3	30	26	36	20	31	42	31	39	29	33	27	23

Gonorrhea Healthy People 2010 Objective: 19 new cases per 100,000 per year



*Healthy People 2010 Objective for full year.



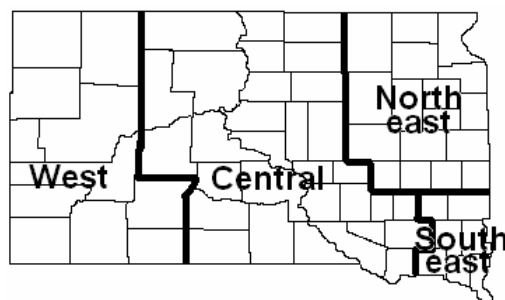
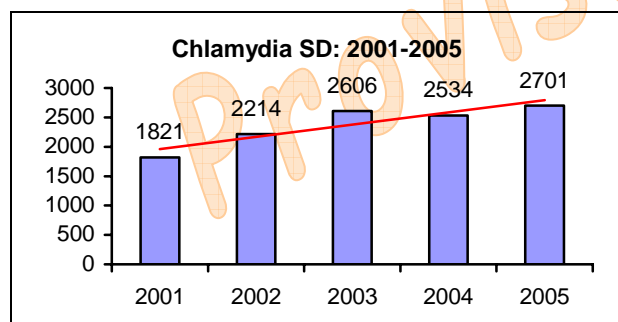
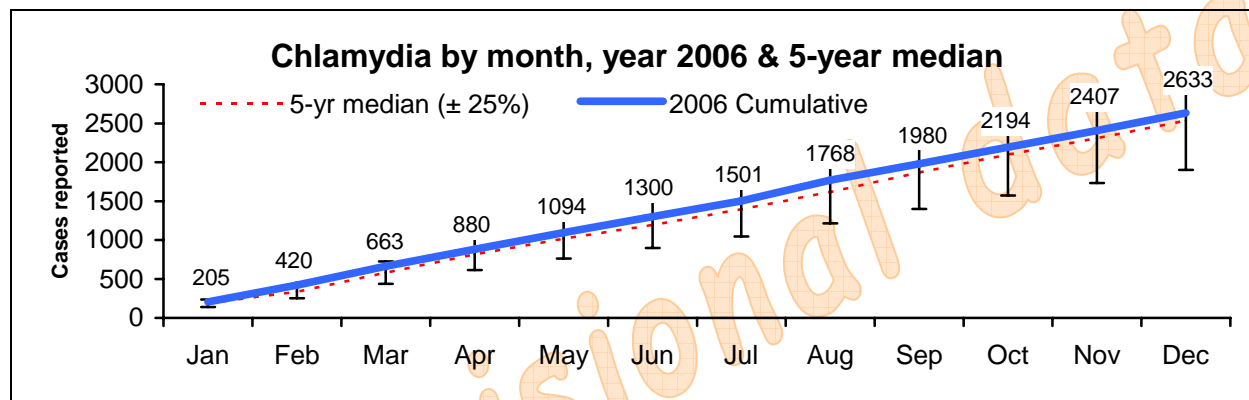
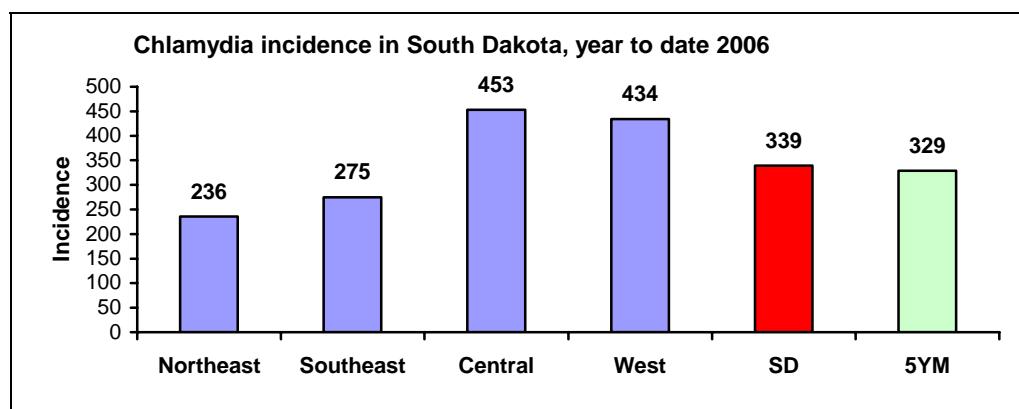
Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2005 estimates

CHLAMYDIA	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast	181,370	429	236.5	18	35	37	41	41	26	34	44	42	35	42	34
SouthEast	256,093	705	275.3	50	51	66	38	50	60	66	80	66	46	65	67
Central Region	148,973	675	453.1	60	55	73	52	51	56	50	69	56	68	45	40
Western Reg	189,524	824	434.8	77	74	67	85	73	64	60	65	47	62	64	86
West River	234,727	1,247	531.3	111	108	110	125	110	95	91	110	81	108	88	110
East River	541,233	1,386	256.1	94	107	133	91	105	111	119	148	130	103	128	117
South Dakota	775,960	2,633	339.3	205	215	243	216	215	206	210	258	211	211	216	227



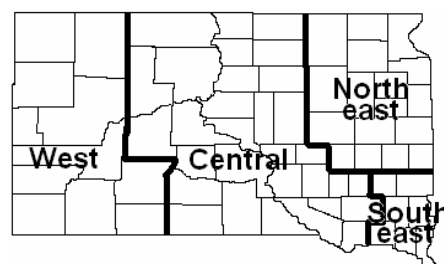
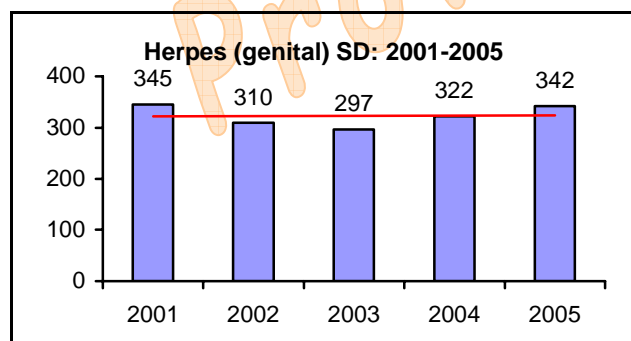
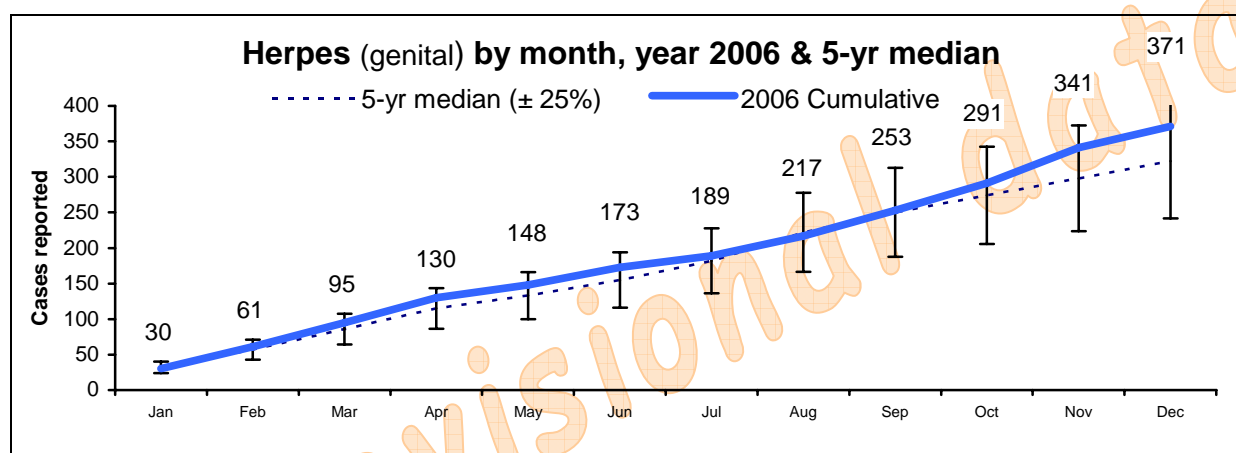
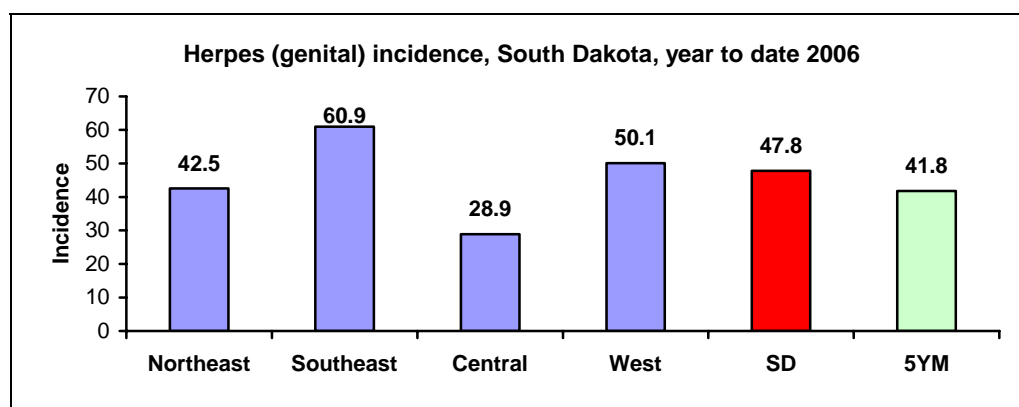
Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2005 estimates

GENITAL HERPES				#											
Region	Pop	cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	77	42.5	5	8	9	6	3	3	3	8	9	8	9	6
SouthEast Region	256,093	156	60.9	13	14	17	13	7	10	9	9	12	17	22	13
Central Region	148,973	43	28.9	4	1	5	6	2	3	0	3	6	5	3	5
Western Region	189,524	95	50.1	8	7	3	11	6	9	4	8	9	8	16	6
West River	234,727	106	45.2	9	8	5	12	6	10	4	8	10	9	17	8
East River	541,233	265	49.0	21	22	29	24	12	15	12	20	26	29	33	22
South Dakota YTD	775,960	371	47.8	30	30	34	36	18	25	16	28	36	38	50	30



Incidence = cases reported per 100,000 population.

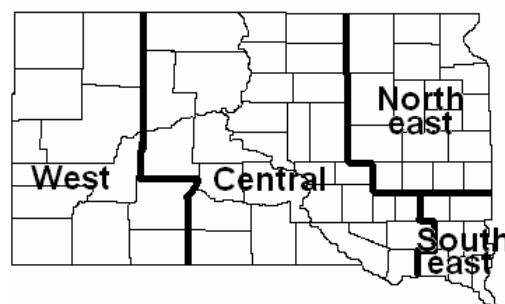
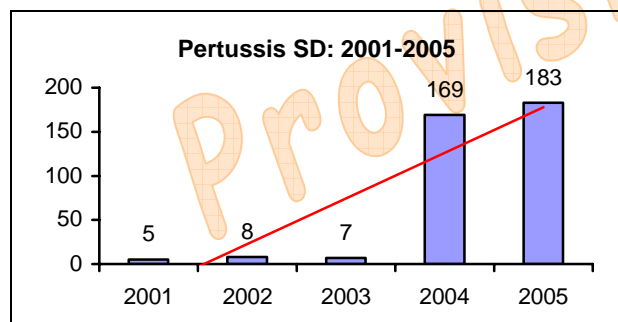
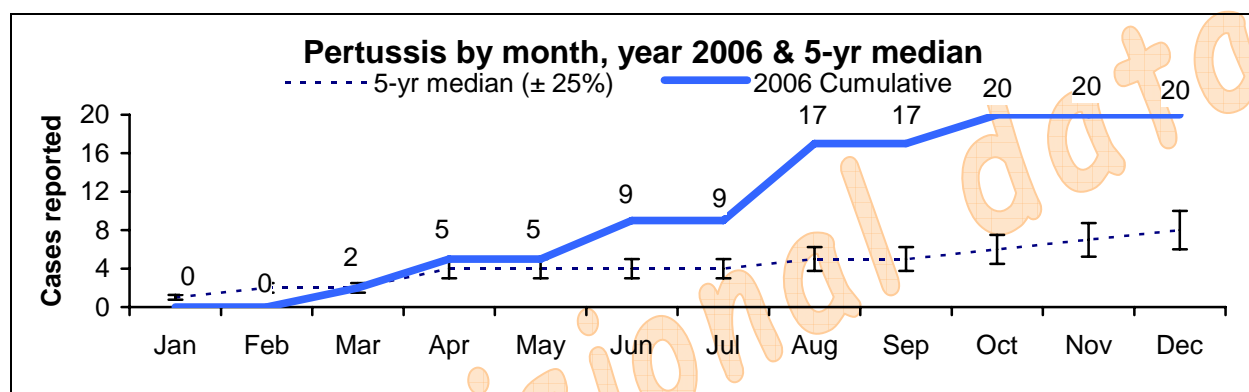
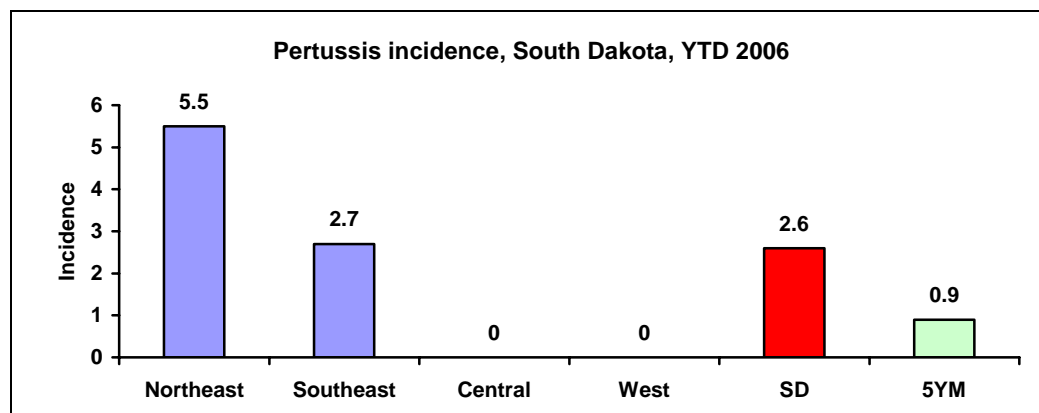
*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2005 estimates

PERTUSSIS

Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Oct	Dec
NorthEast Region	181,370	10	5.5	0	0	2	3	0	0	0	5	0	0	0	0
SouthEast Region	256,093	7	2.7	0	0	0	0	0	4	0	3	0	0	0	0
Central Region	148,973	3	2.0	0	0	0	0	0	0	0	0	0	3	0	0
Western Region	189,524	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
West River	234,727	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
East River	541,233	20	3.7	0	0	2	3	0	4	0	8	0	3	0	0
South Dakota YTD	775,960	20	2.6	0	0	2	3	0	4	0	8	0	3	0	0



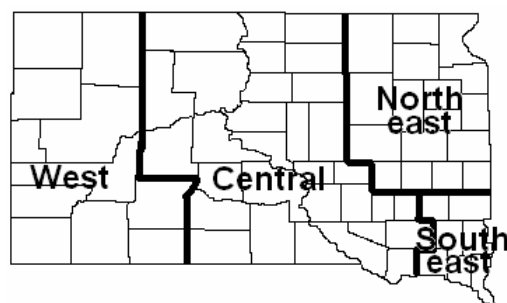
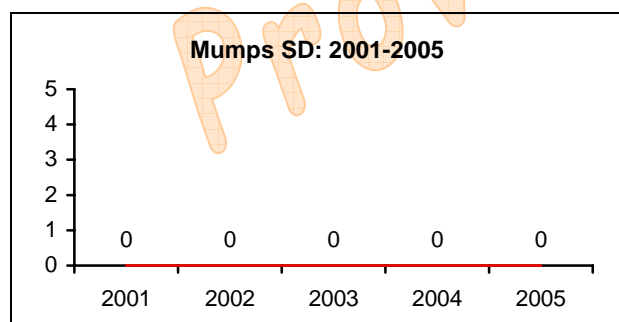
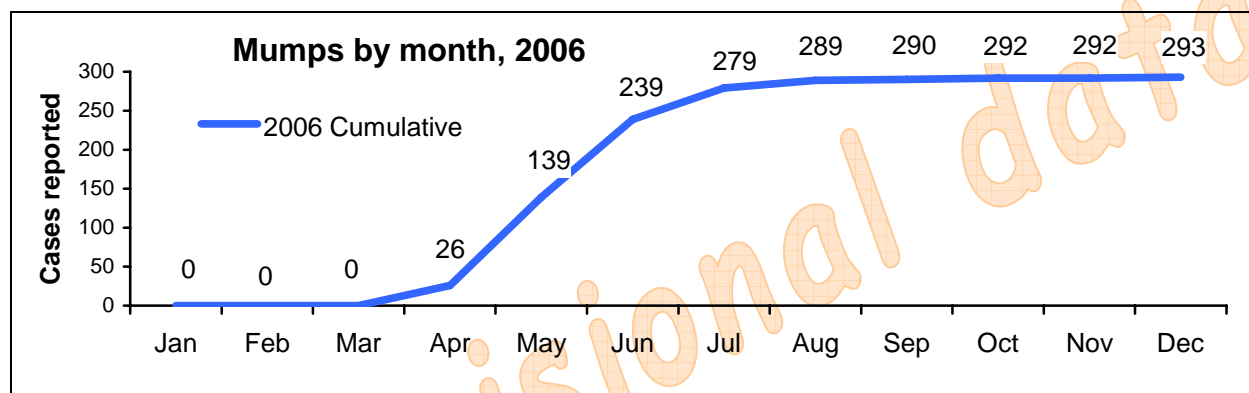
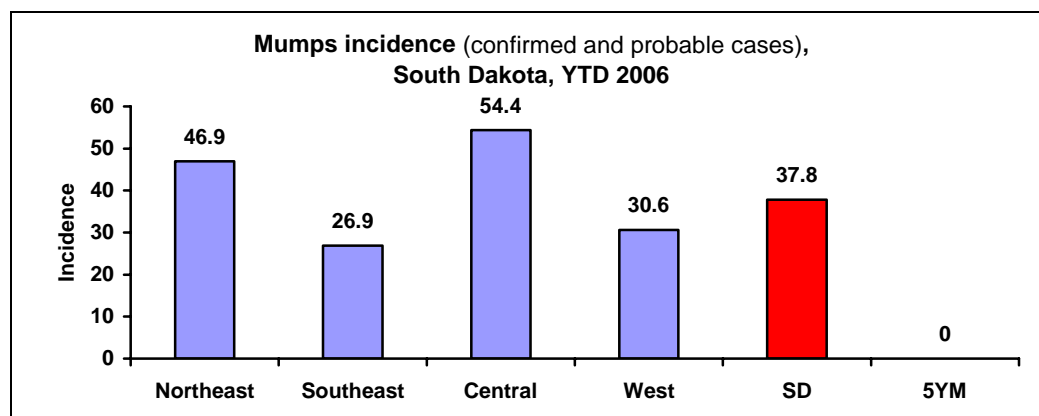
Incidence = cases reported per 100,000 population.

***Confidential disease reporting line 1-800-592-1804**

5YM= 5-year median

Population based on 2005 estimates

MUMPS												
REGION	Pop	# cases	Incidence	Apr-May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
NorthEast Region	181,370	85	46.9	40	17	19	4	2	2	0	0	
SouthEast Region	256,093	69	26.9	54	10	3	1	1	0	0	0	
Central Region	148,973	81	54.4	43	26	7	3	2	0	0	0	
Western Region	189,524	58	30.6	17	27	10	2	2	0	0	0	
West River	234,727	65	27.7	24	27	10	2	2	0	0	0	
East River	541,233	228	42.1	130	53	29	8	5	2	0	0	
South Dakota YTD	775,960	293	37.8	154	80	39	10	7	2	0	0	



Incidence = cases reported per 100,000 population.

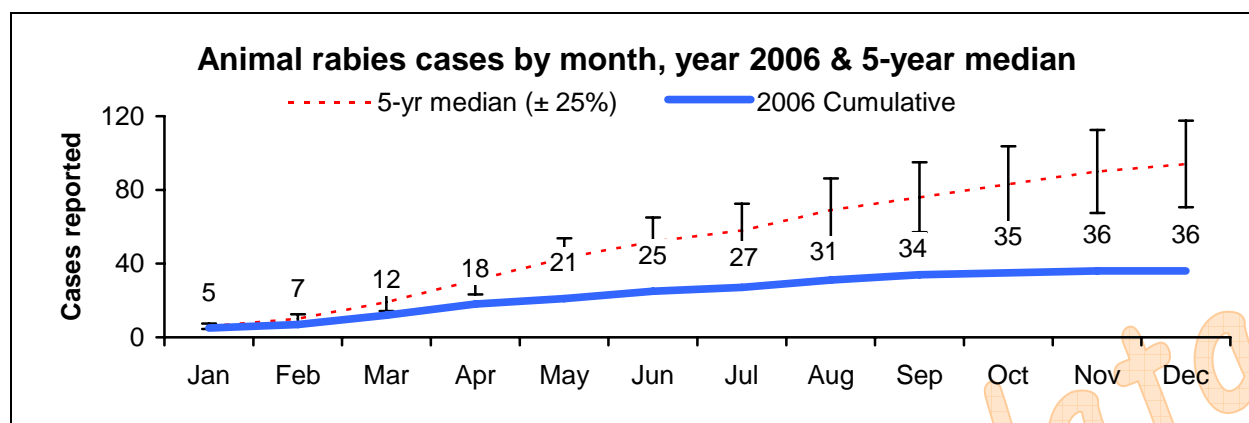
*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

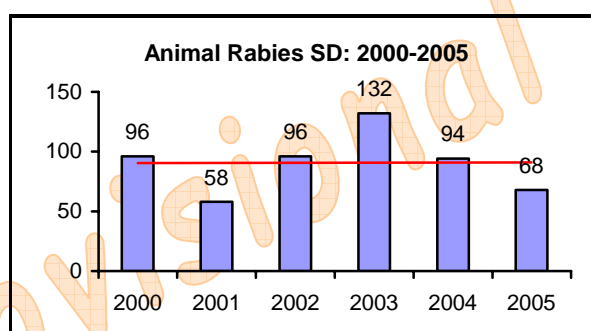
Population based on 2005 estimates

Animal Rabies in South Dakota, 1 January – 31 October 2006

<u>County</u>	<u>Rabid animals</u>	<u>County</u>	<u>Rabid animals</u>
Bon Homme	Skunk 2;	Hughes	Cat 1;
Brookings	Skunk 2;	Kingsbury	Skunk 1;
Brown	Cat 2; bovine 1; skunk 2;	Marshall	Bovine 1;
Clark	Cat 1; skunk 1;	McCook	Skunk 1;
Clay	Bat 1, Skunk 2;	Meade	Skunk 1;
Davison	Skunk 1;	Mellette	Bat 1
Day	Skunk 1;	Minnehaha	Cat 1, Horse 1; Skunk 1;
Deuel	Skunk 1;	Moody	Skunk 1;
Faulk	Skunk 1;	Stanley	Skunk 1;
Hamlin	Skunk 2;	Union	Dog 1, Skunk 1;
Hanson	Bovine 1;	Walworth	Bovine 1;



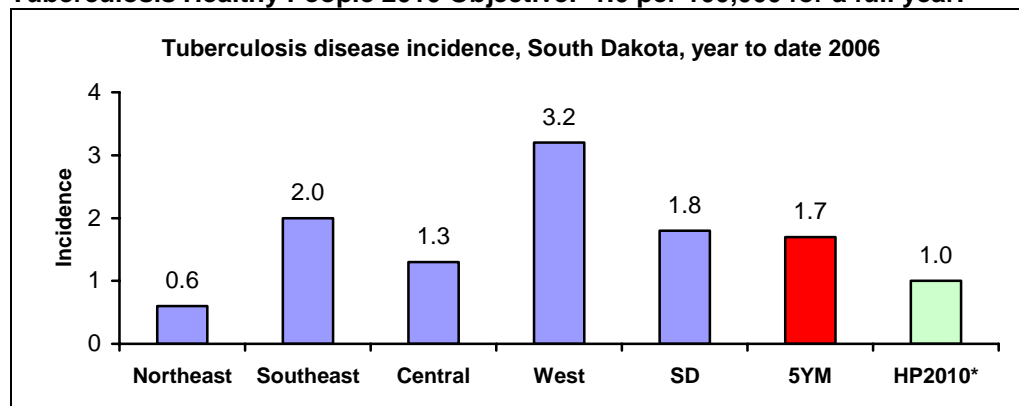
Animal	Number Positive
Bat	2
Cattle	4
Dog	1
Horse	1
Cat	5
Skunk	23
Raccoon	0
Other*	0
Total	36



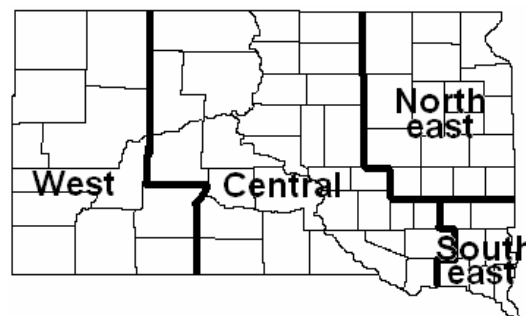
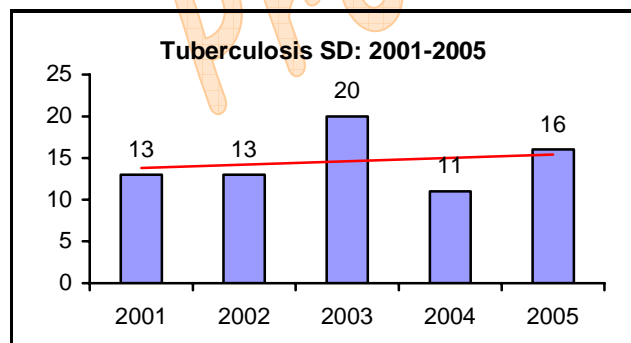
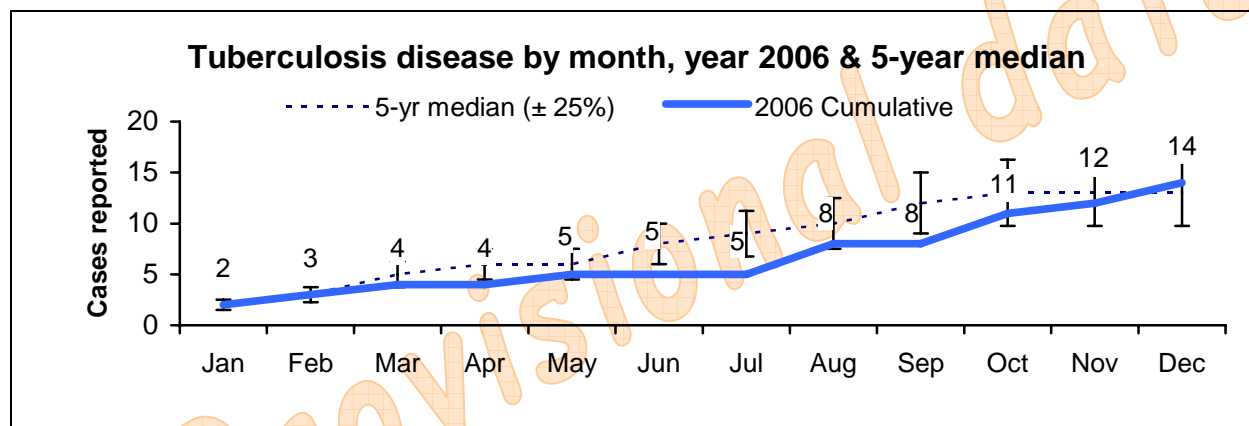
*Animals testing negative include: bat 64, beaver 1, bovine 67, cat 194, coyote 3, deer 8, dog 118, fox 2, gopher 2, horse 10, kangaroo 1, mink 2, muskrat 3, opossum 9, prairie dog 1, rabbit 1, raccoon 49, rat 2, sheep 7, skunk 23, squirrel 5, woodchuck 2.

TUBERCULOSIS DISEASE															
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	1	0.6	0	1	0	0	0	0	0	0	0	0	0	0
SouthEast Region	256,093	5	2.0	1	0	0	0	0	0	0	1	0	1	0	2
Central Region	148,973	2	1.3	0	0	0	0	0	0	0	2	0	0	0	0
Western Region	189,524	6	3.2	1	0	1	0	1	0	0	0	0	2	1	0
West River	234,727	8	3.4	1	0	1	0	1	0	0	2	0	2	1	0
East River	541,233	6	1.1	1	1	0	0	0	0	0	1	0	1	0	2
South Dakota YTD	775,960	14	1.8	2	1	1	0	1	0	0	3	0	3	1	2

Tuberculosis Healthy People 2010 Objective: 1.0 per 100,000 for a full year.



*Healthy People 2010 Objective for full year.



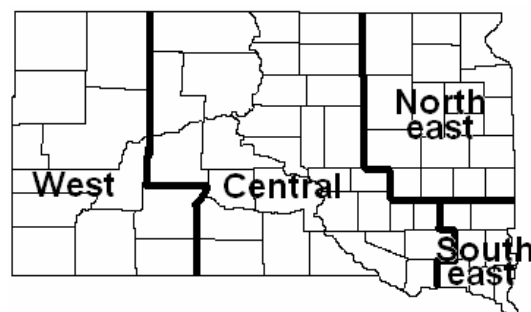
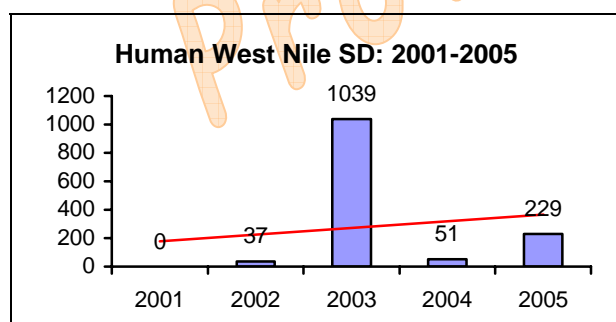
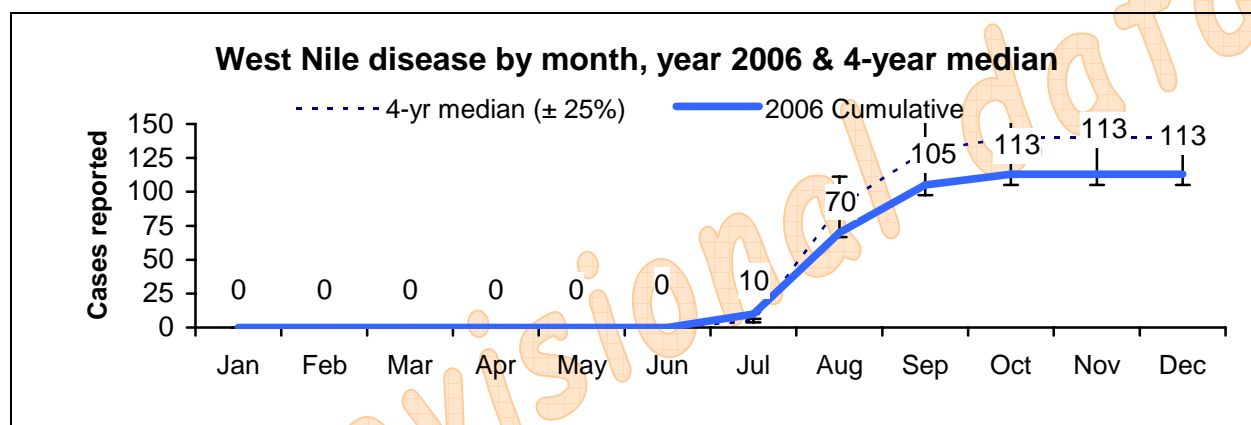
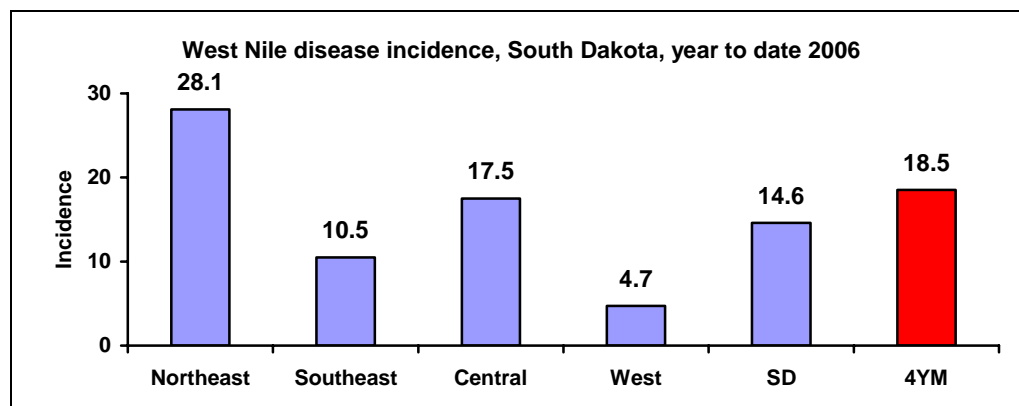
Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

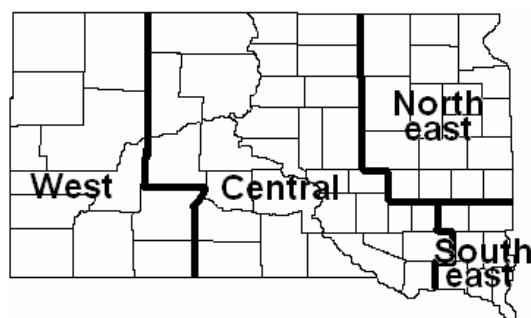
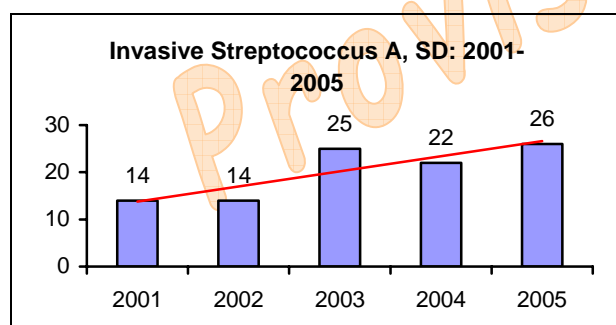
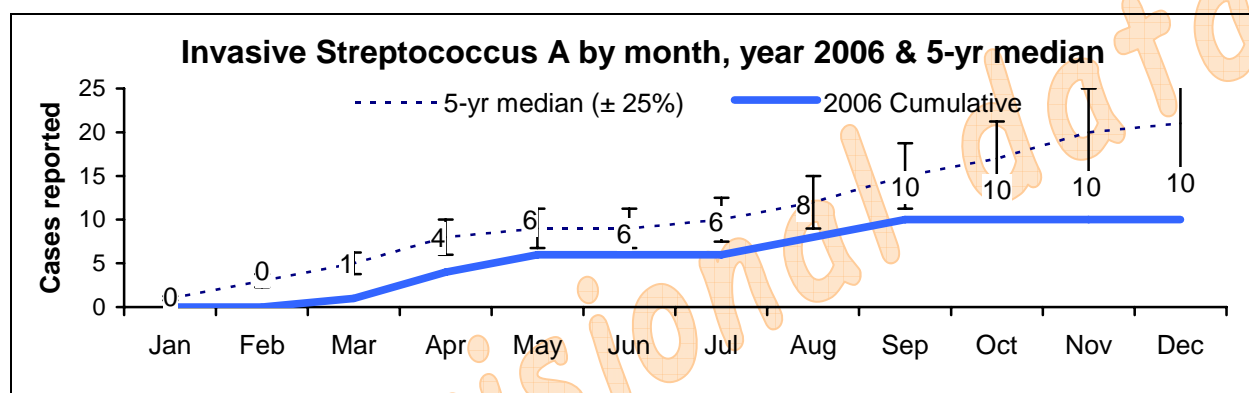
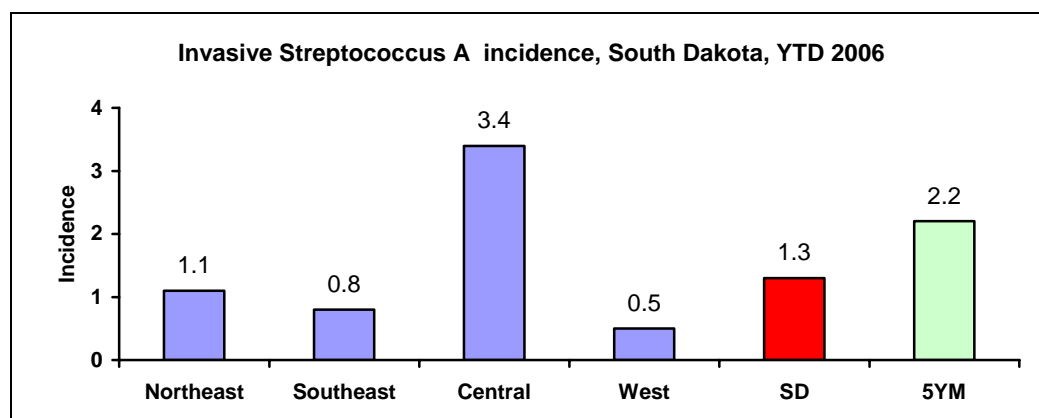
5YM= 5-year median

Population based on 2005 estimates

West Nile disease as of 30 November 2006 (encephalitis and fever)			
REGION	Pop	# cases	Incidence
NorthEast Region	181,370	51	28.1
SouthEast Region	256,093	27	10.5
Central Region	148,973	26	17.5
Western Region	189,524	9	4.7
West River	234,727	20	8.5
East River	541,233	93	17.2
South Dakota YTD	775,960	113	14.6



STREPTOCOCCUS GROUP A, Invasive															
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	2	1.1	0	0	1	1	0	0	0	0	0	0	0	0
SouthEast Region	256,093	2	0.8	0	0	0	1	1	0	0	0	0	0	0	0
Central Region	148,973	5	3.4	0	0	0	1	1	0	0	1	2	0	0	0
Western Region	189,524	1	0.5	0	0	0	0	0	0	0	1	0	0	0	0
West River	234,727	3	1.3	0	0	0	1	0	0	0	2	0	0	0	0
East River	541,233	7	1.3	0	0	1	2	2	0	0	0	2	0	0	0
South Dakota YTD	775,960	10	1.3	0	0	1	3	2	0	0	2	2	0	0	0



Other low incidence or newly reportable diseases in South Dakota, YTD 2006

- Hantavirus pulmonary syndrome, 2 cases (1 Southeast Region, 1 Northeast Region)
- Hepatitis A, acute 9 cases (last case reported in September)
- Hepatitis B, acute, 3 cases
- Chronic Hepatitis B, 14 cases (new reporting)
- Chronic Hepatitis C, 198 cases (new reporting)
- Listeriosis, 2 cases
- Legionnaires disease, 5 cases (1 Northeast Region, 1 Southeast Region, 3 West Region)
- Hemolytic uremic syndrome, 8 cases
- Malaria (*P. vivax*), 1 case (imported)
- Syphilis, primary and secondary, 13 cases (also 6 early latent cases)
- Typhoid fever, 1 case (foreign travel associated)
- Streptococcus Group B, invasive, 12 cases
- Drug-resistant *Streptococcus pneumoniae*, 4 cases
- Tularemia, 5 cases (4 in Central Region, 1 in West Region)
- Q fever, 2 cases (1 in West Region, 1 in Northeast Region)
- Fusarium keratitis, 1 case
- West Nile; please see <http://westnile.sd.gov/WestNileUpdate.pdf>
- Lyme disease, 1 case

CHICKEN POX (varicella)															
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	4	2.2	0	0	1	1	0	0	0	1	1	0	0	0
SouthEast Region	256,093	32	12.5	2	2	0	11	0	1	0	0	1	5	5	5
Central Region	148,973	16	10.7	1	2	0	1	0	0	2	0	1	6	3	0
Western Region	189,524	63	33.2	6	0	0	1	2	1	0	0	0	9	12	32
West River	234,727	65	27.7	6	0	0	1	2	1	0	0	0	9	14	32
East River	541,233	50	9.2	3	4	1	13	0	1	2	1	3	11	6	5
South Dakota YTD	775,960	115	14.8	9	4	1	14	2	2	2	1	3	20	20	37

MRSA, Invasive															
Region	Pop	# cases	Incidence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	13	7.2	1	1	0	0	0	0	0	4	0	3	1	3
SouthEast Region	256,093	21	8.2	0	1	2	2	0	2	1	0	4	3	3	3
Central Region	148,973	13	8.7	1	2	1	1	0	0	0	0	1	2	3	2
Western Region	189,524	1	0.5	0	0	0	0	0	0	0	0	0	1	0	0
West River	234,727	4	1.7	0	0	0	0	0	0	0	0	0	1	2	1
East River	541,233	44	8.1	2	4	3	3	0	2	1	4	5	8	5	7
South Dakota YTD	775,960	48	6.2	2	4	3	3	0	2	1	4	5	9	7	8

*Methicillin-resistant *Staphylococcus aureus* isolated from a normally sterile site such as blood or cerebral spinal fluid and joint, pleural, or pericardial fluid.

HEPATITIS A															
Region	Pop	# cases	Incide	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NorthEast Region	181,370	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
SouthEast Region	256,093	3	1.2	0	1	0	0	0	0	0	1	1	0	0	0
Central Region	148,973	1	0.7	1	0	0	0	0	0	0	0	0	0	0	0
Western Region	189,524	5	2.6	0	0	0	3	0	2	0	0	0	0	0	0
West River	234,727	5	2.1	0	0	0	3	0	2	0	0	0	0	0	0
East River	541,233	4	0.7	1	1	0	0	0	0	0	1	1	0	0	0
South Dakota YTD	775,960	9	1.2	1	1	0	3	0	2	0	1	1	0	0	0

Diseases may be reported to the SD Dept of Health at <http://www.state.sd.us/doh/diseasereport>

Incidence = cases reported per 100,000 population.

*Confidential disease reporting line 1-800-592-1804

5YM= 5-year median

Population based on 2005 estimates